TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-05-04** **Date: 06-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Kitchen and Toilets to Samudhaya Bhavana in Kuvempunagara in ward no.11, (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra Arcade, 3rd floor, East park road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/W.O/134/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-05-17
Sample ID No	:	2017-05-05-04-01
Sample Type	:	Ultra Tech 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-05-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.98	_
2	Finess by Air permeablity method (m^2/kg, Min)	266	225m^2/kg, Min
3	Density (gm/cc)	3.1	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97

****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-05-04** **Date: 02-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Kitchen and Toilets to Samudhaya Bhavana in Kuvempunagara in ward no.11, (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra Arcade, 3rd floor, East park road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/W.O/134/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-05-17
Sample ID No	:	2017-05-05-04-01
Sample Type	:	Ultra Tech 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	05-05-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-05-04** **Date: 08-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Kitchen and Toilets to Samudhaya Bhavana in Kuvempunagara in ward no.11, (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra Arcade, 3rd floor, East park road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/W.O/134/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	05-05-17
Sample ID No	:	2017-05-05-04-02
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	389	389	2.6	97.4	90-100
3	20 mm	5133	5522	36.8	63.2	30-70
4	10 mm	4980	10502	70.0	30.0	10-35
5	4.75 mm	3879	14381	95.9	4.1	0-5
6	Pan	619	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-05-04** **Date: 08-05-2017**

Sample ID No : 2017-05-05-04-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.8**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.3**	
3	Specific Gravity	**2.69**	_
4	Bulk Density(Loose) (Kg/l)	**1.55**	_
5	Bulk Density(Compacted) (Kg/l)	**1.58**	_
6	Water Absorption(%)	**0.23**	_

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Prepared by
Harshitha

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-05-05-04** **Date: 11-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Kitchen and Toilets to Samudhaya Bhavana in Kuvempunagara in ward no.11, (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra Arcade, 3rd floor, East park road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/W.O/134/2016-17
Source of Sample	:	Sample supplied by the customer
Sample Condition	:	Satisfactory
Date of Receipt	:	05-05-17
Sample ID No	:	2017-05-05-04-04
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	08-05-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	201	202	16322	35.320	2163.9	2140.1	Not less than 1800Kg/m^3
2	402	200	201	16160	34.980	2164.6		
3	401	200	202	16200	33.89	2091.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	36.320	35.100	3.48	3.54	Shall not be more than 10% by mass
2	34.430	33.300	3.39		
3	34.560	33.310	3.75		

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Lab ID : **CP-2017-05-05-04** **Date: 11-05-17**

Sample ID No : **2017-05-05-04-04**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	201	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	200	201	
3	401	200	202	
4	402	202	202	
5	400	202	203	
6	400	203	202	
7	400	203	201	
8	401	202	202	
9	403	201	202	
10	401	200	201	
11	402	202	202	
12	402	203	203	
13	401	201	202	
14	400	201	203	
15	403	200	202	
16	403	201	201	
17	401	200	201	
18	400	202	200	
19	401	201	200	
20	401	201	201	
Average of 20 blocks	**401**	**201**	**202**	

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Lab ID : **CP-2017-05-05-04** **Date: 11-05-17**

Sample ID No : 2017-05-05-04-04

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	201	80802	335.0	4.1	4.5
2	402	200	80400	340.5	4.2	
3	401	200	80200	380.0	4.7	
4	402	202	81204	398.0	4.9	
5	400	202	80800	376.0	4.7	
6	400	203	81200	355.5	4.4	
7	400	203	81200	326.5	4.0	
8	401	202	81002	379.0	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Prepared by
Harshitha

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-05-04** **Date: 08-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Kitchen and Toilets to Samudhaya Bhavana in Kuvempunagara in ward no.11, (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra Arcade, 3rd floor, East park road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/W.O/134/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-05-17
Sample ID No	:	2017-05-05-04-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	05-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	109	193	19.3	80.7	60-95	75-100	85-100	95-100
4	1.18 mm	240	433	43.3	56.7	30-70	55-90	75-100	90-100
5	600 micron	201	634	63.4	36.6	15-34	35-59	60-79	80-100
6	300 micron	176	810	81	19.0	5-20	8-30	12-40	15-50
7	150 micron	100	910	91	9.0	0-10	0-10	0-10	0-15
8	Pan	90	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-05-04** **Date: 08-05-17**

Sample ID No : 2017-05-05-04-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.65	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-23-02** **Date: 25-05-17**

Customer : Assistant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.

Address : Vidyaranypura Sub Division, BBMP, Bangalore.

Project Name : Construction of Kitchen and Toilets to Samudhaya Bhavana in Kuvempunagara in ward no.11, (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East park, Malleswaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/W.O/134/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-05-17

Sample ID No : 2017-05-23-02-01

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/05/2017	25/05/2017	150.14 X 150.15 X 150.21	22544	8.354	412.5	18.3	18.2
2	RCC	M20	18/05/2017	25/05/2017	150.22 X 150.30 X 150.24	22578	8.289	422.2	18.7	
3	RCC	M20	18/05/2017	25/05/2017	150.19 X 150.17 X 150.13	22554	8.390	394.7	17.5	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-23-02** **Date: 15-06-17**

Customer : Assistant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.

Address : Vidyaranypura Sub Division, BBMP, Bangalore.

Project Name : Construction of Kitchen and Toilets to Samudhaya Bhavana in Kuvempunagara in ward no.11, (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvestra Arcade, 3rd floor, East park road, Malleswaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/W.O/134/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-05-17

Sample ID No : 2017-05-23-02-02

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/05/2017	15/06/2017	150.32 X 150.35 X 150.21	22601	8.254	526.6	23.3	23.1
2	RCC	M20	18/05/2017	15/06/2017	150.22 X 150.30 X 150.42	22578	8.389	517.0	22.9	
3	RCC	M20	18/05/2017	15/06/2017	150.19 X 150.17 X 150.32	22554	8.490	523.3	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-26-01** **Date: 29-05-17**

Customer : Assistant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.

Address : Vidyaranypura Sub Division, BBMP, Bangalore.

Project Name : Construction of Kitchen and Toilets to Samudhaya Bhavana in Kuvempunagara in ward no.11, (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvestra Arcade, 3rd floor, East park road, Malleswaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/W.O/134/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-05-17

Sample ID No : 2017-05-26-01-01

Customer ID : Plain Chejja

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plain Chejja	M20	22/05/2017	29/05/2017	150.28 X 150.22 X 150.18	22575	8.440	388.3	17.2	17.7
2	Plain Chejja	M20	22/05/2017	29/05/2017	150.25 X 150.26 X 150.21	22577	8.324	408.6	18.1	
3	Plain Chejja	M20	22/05/2017	29/05/2017	150.19 X 150.17 X 150.22	22554	8.423	399.2	17.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-26-01** **Date: 19-06-17**

Customer : Assistant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.

Address : Vidyaranypura Sub Division, BBMP, Bangalore.

Project Name : Construction of Kitchen and Toilets to Samudhaya Bhavana in Kuvempunagara in ward no.11, (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvestra Arcade, 3rd floor, East park road, Malleswaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/W.O/134/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-05-17

Sample ID No : 2017-05-26-01-02

Customer ID : Plain Chejja

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plain Chejja	M20	22/05/2017	19/06/2017	150.20 X 150.11 X 150.24	22547	8.432	543.4	24.1	24.3
2	Plain Chejja	M20	22/05/2017	19/06/2017	150.20 X 150.17 X 150.32	22556	8.339	554.9	24.6	
3	Plain Chejja	M20	22/05/2017	19/06/2017	150.19 X 150.31 X 150.28	22575	8.456	546.3	24.2	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-05-04** **Date: 08-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Kitchen and Toilets to Samudhaya Bhavana in Kuvempunagara in ward no.11, (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra Arcade, 3rd floor, East park road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/W.O/134/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-05-17
Sample ID No	:	2017-05-05-04-05
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	06-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8mm	0.392	530	614	19.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10mm	0.612	539	640	19.5%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12mm	0.888	560	665	21.0%	Satisfactory	Satisfactory

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